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Your attention is invited

**NEWS
OF THE
HYDRAULICS
DIVISION
OF
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**JOURNAL OF THE HYDRAULICS DIVISION
PROCEEDINGS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS**

DIVISION ACTIVITIES

HYDRAULICS DIVISION

Proceedings of the American Society of Civil Engineers

NEWS

December, 1959

PURPOSE OF THE HYDRAULICS DIVISION (Quoted from the Official Register)

"The advancement and dissemination of knowledge relating to the occurrence of water in nature and its behavior in structures, water courses, and underground."

"In particular the field of the Hydraulic Division shall embrace meteorology and hydrology as they affect the engineer, fluid mechanics in engineering usage, and applied hydraulics as a branch of engineering science which furnishes the basis for hydraulic design and for the practical use of water in the different specialized branches of hydraulic engineering."

EXTRACTS FROM MINUTES OF MEETING OF THE EXECUTIVE COMMITTEE HYDRAULICS DIVISION ASCE

This meeting of the Executive Committee was held on Tuesday, 30 June 1959, at the Denver Federal Center, Denver, Colorado. The Committee Chairman, Professor Carl E. Kindsvater, presided. Those in attendance were:

Professor Carl E. Kindsvater, Chairman
Dr. Arthur T. Ippen, Vice Chairman
Mr. Harold M. Martin
Mr. Maurice L. Dickinson
Mr. Joseph B. Tiffany, Secretary

HYDRAULICS DIVISION BUDGET. A report received subsequent to this meeting and dated 1 August 1959 indicates an expenditure to that date of about \$12,000 of the \$13,500 authorized for 1958-59. The following budget has been submitted by the Vice Chairman for FY 1959-60.

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Executive expenses	-	\$ 3,260
Technical Committees	-	16,670
Total		<u>\$ 19,930</u>

The ASCE Board has not yet acted upon this proposed budget.

NAME AND PURPOSE OF THE DIVISION. After considering the various names which had been suggested for the present Hydraulics Division - Water Supply and Hydraulics Division, Hydrology and Hydraulics Division, Hydrology and Water Resources Division, etc. - the Committee confirmed its February decision to retain the present all inclusive name "Hydraulics Division."

After carefully considering comments made by the Water Resources Coordinating Committee (WRCC), it was decided to retain the wording of the purpose of the Hydraulics Division as follows:

"The advancement and the dissemination of scientific and engineering knowledge in all branches of hydraulics, hydraulic engineering and water resources development. In particular this shall embrace meteorology and hydrology as the sciences dealing with the occurrence of water in the atmosphere, on the earth surface and in the ground, fluid mechanics for the understanding of all flow phenomena, applied hydraulics for the design and planning of hydraulic structures and of comprehensive systems, and those social, economic and administrative aspects basic to the conservation and utilization of water as an essential natural resource."

The Secretary was instructed to prepare a letter to Society Headquarters formally requesting a change in the stated purpose of the Division as quoted above.

ORGANIZATION OF WATER RESOURCES COMMITTEES. After careful consideration of the comments of the WRCC and of the Committee on Division Activities, it was decided to proceed immediately with the abolition of the Committee on Hydrology effective in October 1959 and with the establishment of the four new committees as soon as they can be authorized. The Secretary was requested to prepare a letter to Society Headquarters requesting authorization for these actions.

WATER RESOURCES COORDINATOR. It was decided to establish a position of Water Resources Coordinator, who would be responsible to the Executive Committee for the activities of the four new Water Resources Committees until they have been successfully established. He would meet with and report to the Division Executive Committee, and would meet with the new committees whenever he considers the occasion demands. The Secretary was requested to prepare a letter requesting authority to establish this position.

TECHNICAL COMMITTEE PROCEDURES. The procedure to be followed by technical committees in establishing task forces and naming members thereof was discussed. Attention of technical committee chairmen should be called to the requirement that the establishment of new task forces be cleared by the Executive Committee before any steps are taken to name members of task forces. It was further concluded that no one individual should be asked to serve on more than two technical division committees at any one time, and that technical committees should check the ASCE Official Register before nominating members of task forces, to insure not selecting individuals already on several other committees and task forces.

Appointments and 1959-1960 membership, administrative committees
COMMITTEE ON PUBLICATIONS. Professor Wallace M. Lansford has agreed to serve as chairman of this committee. Mr. James Smallshaw was also selected for membership on this committee. The committee thus will consist of:

Name	Year of Termination
Wallace M. Lansford, Chairman	1961
James Smallshaw	1963
Arthur T. Ippen	1960
Harold M. Martin	1960

NEWSLETTER COMMITTEE. Mr. James W. Ball has agreed to serve as the Newsletter editor for at least the ensuing year.

RESEARCH COMMITTEE. Mr. Jacob H. Douma was selected as the new member, replacing Mr. Goodrich whose term has expired. Thus membership of the committee will be:

Name	Year of Termination
Vito A. Vanoni, Chairman	1961
James M. Robertson	1960
Clarence F. Wicker	1962
Walter B. Langbein	1963
Jacob H. Douma (new member)	1964

COMMITTEE ON SESSION PROGRAMS. The committee membership for 1959-60 will consist of the Vice Chairman of the Executive Committee, the new member of the Executive Committee, and the chairman of the nine technical committees (including the four new water resources committees and excluding the Committee on Hydrology, abolished), as follows:

Name	Year of Termination
Maurice L. Dickinson	1960
Eugene P. Fortson, Jr.	1961
Arno T. Lenz	1960
Emmett M. Laursen	1960
Enos J. Carlson	1960
Alvin J. Peterka	1960
Haywood G. Dewey, Jr.	1960

Chairmen of the four new Water Resources Committees are to be selected later. (See also in this Newsletter, NEW WATER RESOURCES COMMITTEES).

STANDARDS COMMITTEE. The following terms of office were selected for the three members of this committee previously appointed without definite terms of office:

Name	Year of Termination
Rolland W. Carter, Chairman	1961
Norbert Leupold	1963
Frank B. Campbell	1965

COMMITTEE ON THE J. C. STEVENS AWARD. Mr. Tate Dalrymple was appointed chairman and Professor Victor L. Streeter was appointed as the member to replace Professor David W. Appel, retiring. Membership for next year is:

Name	Year of Termination
Tate Dalrymple, Chairman	1960
Jacob H. Douma	1961
Victor L. Streeter (new member)	1962

COMMITTEE ON THE KARL EMIL HILGARD HYDRAULIC PRIZE. The following were appointed for two-year concurrent terms on this committee:

Name	Year of Termination
William E. Hiatt, Chairman	1961
Joseph W. Howe	1961
Joseph N. Bradley	1961

Appointments and 1959-60 membership, technical committees

COMMITTEE ON FLOOD CONTROL

Name	Year of Termination
Arno T. Lenz, Chairman	1961
Joseph I. Perrey (term extended)	1960
Francis G. Christian	1962
Arthur R. Luecker	1963
Walter G. Schulz (new member)	1964
Joseph F. Friedkin, resigned.	

COMMITTEE ON HYDROMECHANICS

Name	Year of Termination
Emmett M. Laursen, Chairman	1961
John F. Ripken	1960
Norman H. Brooks	1962
Frederick R. Brown	1963
W. Douglas Baines (new member)	1964
Donald R. F. Harleman, retiring.	

COMMITTEE ON HYDRAULIC STRUCTURES

Name	Year of Termination
Alvin J. Peterka, Chairman	1961
Glenn E. Hands	1960
Harold K. Pratt	1962
Rex A. Elder	1963
Marvin J. Webster (new member)	1964
Jacob H. Douma, retiring.	

COMMITTEE ON SEDIMENTATION

Name	Year of Termination
Enos J. Carlson, Chairman	1961
Albert P. Gildea	1960
Robert B. Banks	1962
Paul C. Benedict	1963
Peter S. Eagleson (new member)	1964
Alvin G. Anderson, retiring.	

COMMITTEE ON TIDAL HYDRAULICS

Name	Year of Termination
Haywood G. Dewey, Jr., Chairman	1961
Lindsay P. Disney	1960
Irvin M. Ingerson	1962
Raymond Boucher	1963
Charles L. Bretschneider (new member)	1964
Eugene P. Fortson, Jr., retiring.	

Future Plans

HYDRAULICS DIVISION SESSIONS AT FUTURE ASCE CONVENTIONS

New Orleans, La. 7-11 March 1960. Four sessions are planned for this Convention.

Reno, Nevada 20-24 June 1960. Three sessions are planned for this Convention.

Boston, Mass. 10-14 October 1960. Six sessions are planned for this Convention.

FUTURE HYDRAULICS DIVISION MEETINGS

Seattle, Washington - August 1960. Six sessions are planned for this meeting. The exact dates of this Conference in August 1960 and other arrangements therefore will be handled by Dr. Ippen.

1961. As of the date of this meeting no invitation has been received from a proposed sponsor.

PRESIDING OFFICERS, FUTURE ASCE CONVENTIONS. The following were designated to preside at Hydraulics Division sessions at ASCE Conventions:

New Orleans	Mr. E. P. Fortson, Jr.	7-11 March 1960
Reno	Mr. M. L. Dickinson	20-24 June 1960
Boston	Dr. A. T. Ippen	10-14 October 1960

Organization of Executive Committee

NEW MEMBER. It was noted that Mr. Eugene P. Fortson, Jr., Chief of the Hydraulics Division, Waterways Experiment Station, Vicksburg, Mississippi, has been appointed for a four-year term on the Executive Committee effective in October 1959.

ELECTION OF 1960 OFFICERS. Dr. Arthur T. Ippen was elected Chairman, Mr. Maurice L. Dickinson was elected Vice Chairman, and Mr. Harold Martin was elected Secretary of the Executive Committee for 1959-60.

DUTIES OF EXECUTIVE COMMITTEE MEMBERS. For the past several years, the Vice Chairman has initiated arrangements for technical programs at ASCE Conventions and Hydraulics Division Conferences for the year when he will be Chairman; during his year as Chairman, he makes final arrangements for those same technical programs. Thus, during any given year the Chairman has been working on programs for the current year and the Vice Chairman on programs for the year ahead. It was decided to change the arrangement for the year 1959-60, in favor of the following arrangement. The Chairman is relieved of responsibility for technical programs in order to enable him to concentrate on the coordination of activities of the technical committees. The Vice Chairman will serve as Chairman of the Session Programs Committee and will make final arrangements for programs for the current year. The first-year member of the Executive Committee will assume responsibility for initial arrangements for programs for 1961.

EXECUTIVE COMMITTEE CONTACT REPRESENTATIVES TO COMMITTEES. With the beginning of the next Society year a more flexible arrangement with respect to contact members will be established. This will take into consideration the availability and proximity of Executive Committee members to the place of meeting of the technical committees.

APPRECIATION FOR RETIRING MEMBER. The Secretary was instructed to record in the minutes an expression of the Division's appreciation to Mr. Tiffany for his seven years of service on the Executive Committee, including one year as Chairman and three years as Secretary. Mr. Tiffany retired from the Committee at the end of this Society year.

HYDRAULICS DIVISION PLANS FOR RENO CONVENTION

The Hydraulics Division is planning three sessions for the Reno Convention to be held 20-24 June 1960. The Tidal Hydraulics, Hydraulic Structures, and Flood Control Committees will each sponsor one session. Messrs. L. Ingerson and Harold K. Pratt, respectively, are responsible for the programs of the Tidal Hydraulics and Hydraulic Structures Committees. Information is not available at this time as to who will organize the session sponsored by the Flood Control Committee.

NEW WATER RESOURCES COMMITTEES

It is to be noted that the Committee on Hydrology no longer appears as a technical committee of the Hydraulics Division. This is due to the fact that the Hydraulics Division has assumed responsibilities in the field of water resources as assigned to it by the Water Resources Report of the Horner Committee and the Water Resources Coordinating Committee established by the ASCE Board of Direction under the chairmanship of Mr. Finley B. Law.

In implementing these responsibilities, the Hydraulics Division Executive Committee has asked approval of the Committee on Division Activities for the establishment of the following committees:

Hydrometeorology
Surface-Water Hydrology
Groundwater Hydrology
Water Resources Planning

The Water Resources Coordinator, mentioned earlier in this Newsletter, will work with and coordinate the efforts of the new committees during their first year of operation.

HYDRAULICS DIVISION SESSIONS, NEW ORLEANS CONVENTION

Available information on sessions for the New Orleans Convention (7-11 March 1960) is as follows:

Sponsored by the Hydromechanics Committee

VIBRATION IN HYDRAULIC STRUCTURES, F. B. Campbell, Chief, Hydraulic Analysis Branch, U. S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.

THE DAMPING OF OSCILLATORY WAVES DUE TO LAMINAR BOUNDARY LAYERS, P. S. Engleson, Assistant Professor of Hydraulic Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts.

FREE SURFACE PHENOMENA IN TURBULENT FLOW, J. W. Dellour, Associate Professor of Hydraulic Engineering, Purdue University, Lafayette, Indiana, and his associate, Mr. D. S. McManus.

Sponsored by the Hydrology Committee

AN APPRAISAL OF THE STREAM-GAUGING NETWORK IN THE UNITED STATES, J. E. McCall, District Engineer, U. S. Geological Survey, Trenton, New Jersey.

SEEPAGE THROUGH LAYERED ANISOTROPIC POROUS MEDIA, D. K. Todd, Associate Professor of Civil Engineering, and Jacob Bear, Graduate Research Engineer, University of California, Berkeley, California.

PRESSURE DISTRIBUTION IN PARTIALLY SATURATED POROUS MEDIA DURING STEADY FLOW OF IMMISCIBLE FLUIDS, V. H. Scott, Associate Professor of Irrigation, University of California, Davis.

The Committee on Hydraulic Structures will not sponsor a session at the New Orleans Convention; therefore a correction to page 3 of the August Newsletter is in order.

AN INTERESTING ASME PROGRAM

Many ASCE members will be interested in the Hydraulics Division ASME Conference to be held in Houston, 7-9 March 1960. The program will include two special symposia, one on cavitation highlighting the problems we face and research needs rather than specific accomplishments. The other is on stall and unsteady flow in fluid machinery.

FOR YOUR CALENDAR

ASCE Meetings

March 7-11, 1960	ASCE, New Orleans Convention
June 20-24, 1960	ASCE, Reno Convention
August 17-19, 1960	Hydraulics Division Conference,
October 10-14, 1960	ASCE, Boston Convention
April 10-14, 1961	ASCE, Phoenix Convention
October 16-20, 1960	ASCE, New York Convention
February 1962	ASCE, Houston Convention
May 1962	ASCE, Omaha Convention
October 15-19, 1962	ASCE, Detroit Convention

Non-ASCE Meetings

February 12-13, 1960	Southeastern Regional Meeting, S of American Military Enginee Jacksonville, Florida
March 7-9, 1960	Gas-Turbine Power and Hydraul Conference American Society Mechanical Engineers, Housto Texas
April 4-8, 1960	Nuclear Congress and Exhibit, Coliseum, New York, N. Y.
April 28-30, 1960	Annual Meeting, American Geopl Union, Washington, D. C.
June 18-21, 1962	Fourth National Congress of App Mechanics, University of Cali Berkeley, California

Deadline dates for Newsletter contributions: January issue - November
March issue - Jan. 20, 1960.

USE OF THE HYDRAULICS DIVISION NEWSLETTER

You are urged to continue use of the Division Newsletter for announcements, inquiries, personnel news, committee reports, surveys and other of interest to Division members.

NEWSLETTER EDITOR FOR 1960

Your Newsletter Editor for 1960 is Mr. James W. Ball, Bureau of R
mation, Building 56, Denver Federal Center, Denver 25, Colorado. The
sistance and cooperation of the Hydraulics Division officers, committee
and members in furnishing material for the Newsletter in 1959 are app
ated sincerely.

Best wishes for a progressive and HAPPY NEW YEAR.

GUY L. ARBUTHNOT, JR.
Newsletter Editor, 1959

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